

CEPI Update / P20
Teacher Student Data Link
MSDS Optimization



MPAAA Conference
Fall 2010

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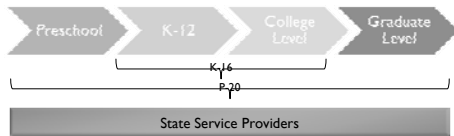
Agenda

- ▶ P-20 – What is it and What Does it Mean?
- ▶ Michigan's P-20 Efforts and Project Update
- ▶ The Teacher Student Data Link – a Critical Success Factor for P-20
- ▶ MSDS Optimization
- ▶ Questions and Feedback

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What is P-20?

P-20 is a **"collaborative network"** between K-12 institutions, postsecondary institutions and state service providers that share the common goal of improving **student success** and **workforce readiness** through the **sharing of information** and the **alignment of policies**.



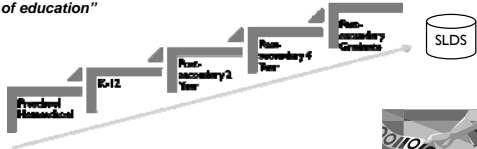
In general, P-20 is about using "Data" to improve outcomes.

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What is P-20?

A fundamental principle is that a P-20 system can create a **"seamless system of education"** that links and coordinates each educational level into a cohesive system fundamentally guided by the principle that success in **college** begins in preschool.

"One goal is to ensure that students are prepared for each succeeding level of education"



To achieve this goal, data (measures) must be shared between the various service providers using a common student identifier: the unique identification code (UIC).



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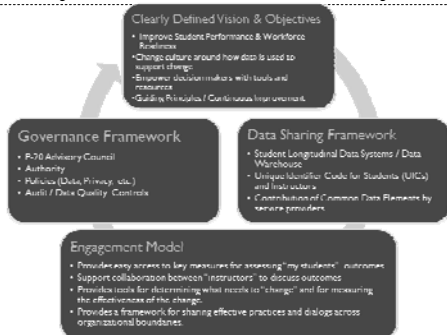
P-20 – Who are the Key Stakeholders

- ▶ Data Quality Campaign (www.dataqualitycampaign.org)
- ▶ Department of Ed
- ▶ Michigan's Center for Educational Performance and Information (CEPI)
- ▶ K-12
- ▶ Various representatives from the Post-secondary level
- ▶ Coming soon... "Michigan's P-20 Council"

The America Recovery and Reinvestment Act 2009 and State Fiscal Stabilization Fund requires the establishment and use of a "pre-K-through-college and career data systems to track progress and foster continuous improvement"
ed.gov/policy/gen/leg/recovery/factsheet/stabilization-fund.html

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Some Key Characteristics of a P-20 System



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America Competes Act 12 Elements
Where is Michigan?

- ✓ 1. A unique statewide student identifier that connects student data across key databases across years (CEPI's Unique Identification Code UIC)
- ✗ 2. **Student-level** enrollment, demographic and program participation information (Spring 2011)
- ✓ 3. The ability to match individual students' test records from year to year to measure academic growth
- ✓ 4. Information on untested students and the reasons they were not tested
- ✗ 5. A teacher identifier system with the ability to match teachers to students (August 2011)

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America Competes Act 12 Elements
Where is Michigan?

- ✗ 6. Student-level transcript information (academic progress data), including information on courses completed and grades earned (Spring 2011)
- ✓ 7. Student-level college readiness test scores
- ✓ 8. Student-level graduation and dropout data
- ✗ 9. The ability to match student records between PK-12 and higher education systems (Early 2011)
- ✓ 10. A state data audit system assessing data quality, validity and reliability

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America Competes Act 12 Elements
Where is Michigan?

- ✗ 11. Successful **student transition** to higher education; including enrollment in remedial coursework (Spring 2011)
 - ▶ number and percent of high school graduates who enroll in college within 16 months of receiving diploma
 - ▶ Same group, one year's credit over two academic years
 - ▶ remedial coursework tracking
- ✗ 12. **Other** information necessary to address alignment and adequate preparation for success in higher education
 - ▶ reports for Teacher Preparation Institutions
 - ▶ Michigan Merit Curriculum Longitudinal Data Study

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Current Projects

- ▶ Statewide Student Longitudinal Data System
 - ▶ Incorporating data from PK-12 and postsecondary institutions
- ▶ Michigan e-Transcript system
 - ▶ Method of connecting and sharing the unique identification code (UIC) between PK-12 and postsecondary institutions
 - ▶ Method of collecting academic progress data from postsecondary institutions
 - ▶ Method of collecting transcript data from PK-12 institutions
- ▶ Postsecondary (IHE) Request for UIC
 - ▶ Method for postsecondary institutions to obtain a UIC for students who did not come from a Michigan public (or participating private) K-12 institutions
- ▶ Education Portal
 - ▶ Method of making the data required publicly accessible
 - ▶ Making data useful for researchers and the data providers (PK-20 institutions)
- ▶ Other Key Projects
 - ▶ Measuring teacher effectiveness
 - ▶ Linking teacher credentials with the REP
 - ▶ Linking teachers and students

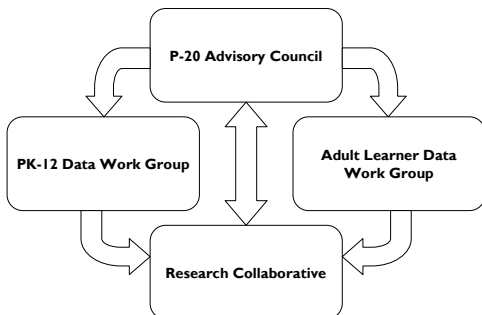
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Shared Work, Shared Progress

- ▶ Michigan e-Transcript – 100% public IHEs signed on to receive
- ▶ PK-12 deadline to register with Docufide: December 31
- ▶ College student academic progress repository
 - ▶ Temporary storage of postsecondary academic progress data using common data standards
 - ▶ Postsecondary institutions periodically send academic progress data of enrolled students to the repository
 - ▶ State to pull necessary data elements for reporting from repository and move into the SLDS for analysis
- ▶ Looking at teacher student link as an alternative for PK-12 state transcript reporting (*more info later in presentation*)
- ▶ Develop reports to meet America Competes Act needs
- ▶ Convene P-20 Advisory Council and work groups to bring focus to the shared goals of the education community

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Collaboration Model: P-20 Advisory Council



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P-20 Phase I Timeline & Milestones

- Today**
 - Reviewing technical vendor proposals for SLDS
 - Working with college/university staff on data definitions and file layouts for academic progress exchange
- Fall 2010**
 - Convene P-20 governance team
 - SLDS Vendor selection (September)
- Oct/Nov 2010**
 - SLDS vendor contracted; begin SLDS design of phase I
- Early 2011**
 - Postsecondary sends academic progress data to repository
 - K-12 sends secondary transcripts to repository
- Summer 2011**
 - State to receive academic progress data from repository and transfer to the SLDS
 - TSDL data submission
 - Data analysis and report generation from SLDS
- Sept 2011**
 - Phase I of SLDS delivered and implemented
 - Meet all 12 America Competes Act required elements of an SLDS**
 - Phase II development work begins
 - Define Phase III deliverables identified
 - Postsecondary continues to send transcript data to repository

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So On the Ground – What’s It Mean to the PK-12 Community?

- ▶ We need to **Connect teachers and students**
- ▶ We need to collect transcript information including **courses completed and grades earned**

How can we do this?
Teacher Student Data Link Collection

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Teacher Student Data Link Workgroup

▶ Janell Craig	Oakland Schools
▶ Jan Dodge	Holt Public Schools
▶ Rob Dickinson	Grand Rapids Public Schools
▶ Bob Gerrity	Wayne RESA
▶ Stacy Hodges	Genesee ISD
▶ Samantha Martin	Lakeville Schools
▶ Paula McDonald	Birmingham Public Schools
▶ Kathy Ott	Jackson ISD
▶ Scott Koziol	Jackson ISD
▶ Joel Phillips	Newago RESA
▶ Jackie Laymac	International Academy

THANK YOU!

- ▶ Looking for PSA representative and building administrator
- ▶ CEPI
- ▶ MDE Office of Educational Assessment & Accountability
- ▶ MDE Office of Career and Technical Education
- ▶ MDE Office of Professional Preparation Services

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Teacher / Student Data Linkage (TSDL)

- ▶ New collection, starting with School Year 2010/11
- ▶ Connect students with teachers
- ▶ Includes courses taken and grades earned
- ▶ Use PIC from the REP system
- ▶ Phased approach
- ▶ Needed to comply with the America Competes Act
 - ▶ Section 6401 (e)(2)(D)

Funded collection in State School Aid Act, Section 94

TSDL and Connection with e-Transcripts

- ▶ Day to Day Sending Service
 - ▶ Does NOT replace the e-transcript service for sending transcripts to post-secondary institutions (IHE)
 - ▶ This is primary method for extending the UIC to the IHE
 - ▶ Part of the ARRA requirements / 12 Essential Elements
- ▶ Bulk Upload to the State
 - ▶ Limitation: E-Transcript bulk load only includes 9-12
 - ▶ Compliance requirements are for transcript data on PK-12
 - ▶ Can the TSDL collection to replace the need for the bulk load?
- ▶ Challenge - SRS systems may not have elementary grades
 - ▶ This identified challenge is addressed by only collecting completion status for elementary in the TSDL

TSDL & the Teacher Identifier

- ▶ PIC
 - ▶ Personnel Identification Code
 - ▶ Permanent code, like UIC for staff
 - ▶ Used in REP system
 - ▶ Probably stored in HR system locally
 - ▶ Need to connect to SRS
- ▶ REP Enhancements
 - ▶ Will have a PIC lookup service available in December
 - ▶ Provides the ability to lookup and create PICs for new teachers outside of the REP reporting window
 - ▶ Requires REP authorized user

TSDL & PIC Validation

- ▶ PIC issues
 - ▶ PIC will be validated at collection time
 - ▶ MSDS will only validate that PIC is valid
 - ▶ Bad PIC, record errors out
 - ▶ Data Quality reports (REP / MSDS Congruency)
 - ▶ Is there an association between the teacher and the school?
 - ▶ Do the subjects taught match with the assignment codes?
 - ▶ Availability
 - ▶ REP closed for new PIC creation Jan. – Mar. and Jul. – Aug.
 - ▶ The new PIC lookup service will help fill this gap
 - ▶ CEPI will continue looking at enhancements to further streamline this process for future reporting cycles

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TSDL & PIC Issues

- ▶ PIC for non-employees
 - ▶ Yes, you can report the PIC for non-employees
 - ▶ CTE students & other workbased
 - ▶ CTE required IF receiving academic credit
 - ▶ Cooperative ed. students
 - ▶ Virtual learning situations
- ▶ Can student system hold non-employees and work with HR system?
 - ▶ Potential local system impact

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TSDL Collection

- ▶ Collection elements (Components)
 - ▶ Student identifier components
 - ▶ Personal Core
 - ▶ Submitting Entity
 - ▶ Personal Demographics
 - ▶ Homeless
 - Required when no address information is included in Personal Demographics
 - ▶ Entity Demographics
 - ▶ Student courses
 - This will be a modification of the Migrant Curriculum component
 - Contains the specific elements required for collecting the courses completed, grades earned and teacher identifier

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TSDL Collection - Characteristics

Updated from August

- ▶ PIC REQUIRED
- ▶ Subject Area Code - REQUIRED
 - ▶ Elementary codes
 - ▶ Secondary codes (NCES)
 - ▶ Business rules relative to grades / credits are driven by this code
- ▶ Course Identifier Code PHASED IN
 - ▶ NCES definitions and codes - **not** required for 2010-11
 - ▶ Added code for general elementary (when subject areas not available)
- ▶ Local Course Title REQUIRED
- ▶ Local Course ID REQUIRED

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TSDL Collection - Characteristics

Updated from August

- ▶ Course Type REQUIRED
 - ▶ Regular, honors, advanced, IB, etc.
 - ▶ Added Dual Enrollment
 - ▶ PIC not required if Dual Enrollment Course Type is submitted
- ▶ Academic Year REQUIRED
- ▶ Term type REQUIRED
 - ▶ Full year, semester, tri, etc
- ▶ Completion status REQUIRED
 - ▶ Workgroup added options of Audited (no credit), Tested Out
 - ▶ Completed / Passed
 - ▶ Completed / Failed
 - ▶ This meets grade requirement for elementary

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TSDL Collection - Characteristics

Updated from August

- ▶ Grade CONDITIONAL
 - ▶ Workgroup changed from phased approach to required only for secondary courses
 - ▶ Required if Subject Area Code = 01-22
 - ▶ (optional for elementary courses)
- ▶ Credits Granted CONDITIONAL
 - ▶ Required if Subject Area Code = 01-22
- ▶ Course Section
 - ▶ CEPI is continuing to research this to determine if requirement is only for MSIX per TSDL Workgroup issues

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UPDATE on VIRTUAL DELIVERY (8/31/10)

- ▶ Virtual Delivery Method
 - ▶ New Yes/No characteristic to identify if the course is being delivered via a virtual delivery method such as STW, computer based learning (Rosetta Stone), virtual high school, etc.
- ▶ Virtual Instructor Role
 - ▶ ***Characteristic name still being ironed out*
 - ▶ The intent is to provide additional clarity about the teacher being reported
 - ▶ List type of field:
 - ▶ Teacher of Record
 - ▶ Monitor Teacher
 - ▶ No Local Oversight
 - ▶ *Last option will make PIC optional field*

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TSDL Collection – Who to Report

- ▶ Students
 - ▶ All students who receive a grade
 - ▶ Shared Time, Non-Public not reported
 - ▶ All courses resulting in a grade
 - ▶ For secondary, this includes any courses that would show up on the transcript
- ▶ Teachers
 - ▶ Teacher of Record:
 - ▶ The certificated teacher who provides instruction, who tests and quizzes, who evaluates the pupil's performance and gives the pupil a grade
 - ▶ Instructional vs support teachers
 - Resource teachers not reported
 - ▶ This may be a mentor teacher for certain virtual delivery methods
 - ▶ **YOU WILL WANT TO IDENTIFY IN NEW FIELDS (prior slide)**
 - ▶ Pull out teachers can be, but not required
 - ▶ Can have multiple teachers

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TSDL – Who to Report

- ▶ Mobility
 - ▶ Student who received final grade, report
 - No grade, no reporting
 - ▶ Does NOT apply to Migrant students
 - ▶ Report if they received a grade (even if incomplete)
 - ▶ CLARIFICATION: TSDL reported for migrant students who completed the course; otherwise, don't need to report link
 - ▶ Still need to report migrant curriculum data per the 10 day rules for migrant students
- ▶ At least 1 PIC per student

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TSDL

Updated from August

- ▶ Who gets reported (or not)
 - ▶ Mobility Challenge
 - ▶ Student exits at week 11 of 12 week term
 - ▶ Student off SRS at time of grade collection?
 - ▶ Are grades collected, recorded, reportable for withdrawn students?
 - ▶ Can your SRS accommodate this at all grade levels?
 - ▶ Timing & System Rollover Challenges
 - ▶ Graduates may need to be uploaded earlier before they are removed from SIS at year end rollover
 - ▶ May need to work closely with your SIS to maintain necessary records for uploading after year-end rollover
 - ▶ Workgroup continues to work through these challenges
 - ▶ **Start Talking to Your Vendor!**

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TSDL Collection – Current Status

- ▶ Separate Collection – not tied to General or SRM
 - ▶ Considering a May 1 – August 31 window
 - ▶ Will allow time for summer courses to be reported
- ▶ Work Group continuing to address issues and finalize details
 - ▶ Communication strategy
 - ▶ System reports and data quality reports
- ▶ General Timeline:
 - ▶ Communications begin in September
 - ▶ Schema posted in December for vendor development
 - ▶ CEPI development in January / February
 - ▶ CEPI testing in March
 - ▶ Field testing in April
 - ▶ Training planned for spring 2011

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MSDS Optimization

- ▶ **Headline: Performance Improvements**
 - ▶ Substantial hardware and software upgrades completed
- ▶ **3x Faster Processing**
 - ▶ Spring record processing averaged 275 ms / record
 - ▶ With performance tweaks, we now see 97 ms / record
 - ▶ Spring – took about 6 hours to process 29 various sized files
 - ▶ Now – same files took 2 hours and 20 minutes to process
- ▶ **Multi-threading of up to 11 files**
 - ▶ Same 29 files now process in 43 minutes
 - ▶ Per record time decreases to 201 ms / record but total throughput increases substantially
- ▶ Remember: **Do XML Validation Off-line FIRST**
 - ▶ Make sure that your file will pass file-level validation before submitting
 - ▶ This step helps everyone because files that fail take up queue time.....

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Keeping up on Communications

- ▶ MSDS Listserv – If you aren't on it, join it!
 - ▶ This is a standard forum for distribution of communications, tips, and issue resolution for MSDS users
 - ▶ To join the Listserv, send an e-mail to: listserv@listserv.michigan.gov with no subject, and the following text in the body of the message (exclude all other text such as signatures, etc.): subscribe cepi-srdsd
- ▶ MSDS Vendor Listserv
 - ▶ This is a standard forum for communicating with local student information system vendors.
 - ▶ To join the Listserv, send an e-mail to: listserv@listserv.michigan.gov with no subject, and the following text in the body of the message (exclude all other text such as signatures, etc.): subscribe cepi-srdsdvendor

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NCES SCED Links

- ▶ Secondary School Course Classification System: School Codes for the Exchange of Data (SCED)
- ▶ nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2007341
- ▶ nces.ed.gov/programs/handbook/data/pdf/SCED_codes.xls

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